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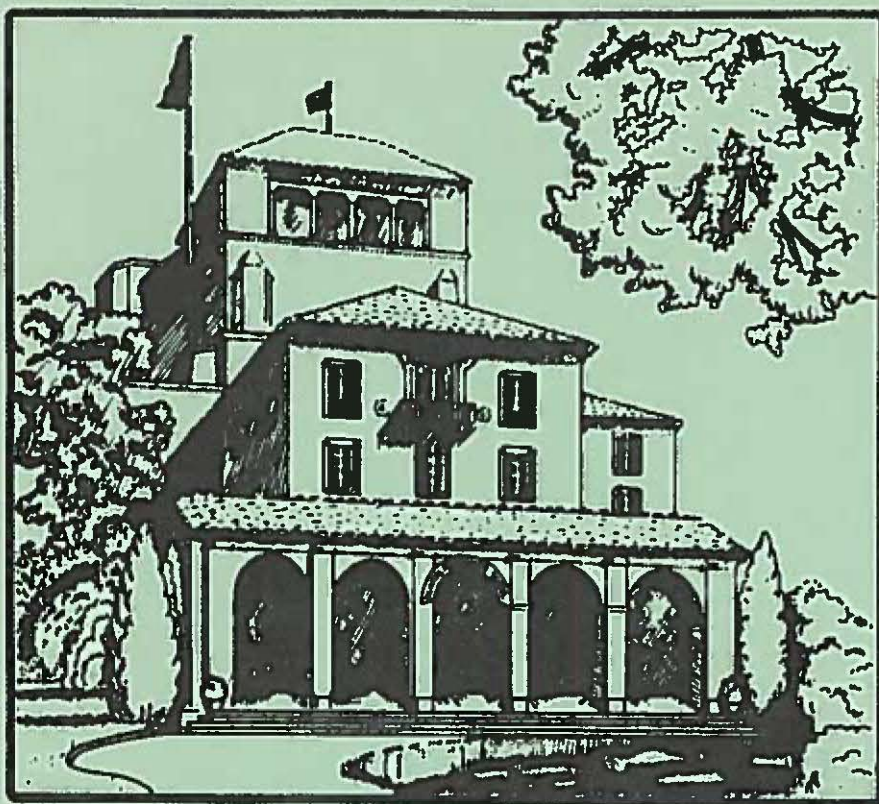
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68

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Naval Postgraduate School

FACULTY BULLETIN

ISSUE NO. 1, 1977

31 January 1977

1977 Dependents' Scholarship Program

The 1977 Fund Raising Drive for the Dependents' Scholarship Program has been announced and will be completed by 11 March 1977. LCDR J. H. CYR, USN, telephone 646-2786, has been designated coordinator of the 1977 Drive. The Dependents' Scholarship Program was established by the Naval Postgraduate School and the Naval Postgraduate School Foundation, Inc., in May 1973. The purpose of the program is to encourage and reward good scholarship by providing grants to outstanding students who are dependents of Naval Postgraduate School personnel, civilian or military, staff or students. Since its inception in 1973, the program has awarded \$8900 in scholarships to include individual awards ranging from \$500 to \$100 to deserving candidates. The goal for the 1977 campaign is to award a minimum of three scholarships of \$500 each. Donations may be made to the Dependents' Scholarship Fund, Naval Postgraduate School Foundation, Inc.

THE SOCIETY OF THE SIGMA XI
Naval Postgraduate School Chapter

The Naval Postgraduate School Chapter, The Society of the Sigma Xi, presented a public lecture Thursday, 13 January 1977 in Ingersoll Hall. Mr. Richard T. Land, Head, Instructional Laboratories, Division of Engineering and Applied Physics, Harvard University delivered the lecture titled, "Technological Seeing--Problems of Interactive Computer Graphics."

Mr. Land, as a Research Associate in Engineering at Harvard, has participated in several courses involving "Computer Art," "Communication in Society," and "Explorations of Technological Impacts on Visual Tasks." He is the author of numerous papers in the field of optics and is an active member in the American Physical Society, the Optical Society of America, the U.S. Institute for Theatre Technology, and the Society of Photo-optical Instrumentation Engineers.

METEOROLOGY DEPARTMENT REVIEW COMMITTEE

On 13-14 January 1977 members of the Academic Review Committee for the Meteorology Department convened at the Naval Postgraduate School. Members of the Committee were:

- Dr. David Potter, Vice President, Environmental Activities Staff,
General Motors Corporation
- Dr. H. A. Panofsky, Professor of Meteorology, Pennsylvania State
University
- Dr. T. N. Krishnamurti, Professor of Meteorology, Florida State
University
- Dr. A. Arakawa, Professor of Meteorology, University of California
at Los Angeles.

The Committee considered the curricula and course offerings of the Department of Meteorology, and were given an overview of the research conducted by the Department. At the conclusion of the meeting the Committee reported to the Superintendent and the Provost the result of their deliberations.

DISTINGUISHED VISITORS

Rear Admiral Paul C. Boyd, USN, Director, Security Assistance Division (OP-63), spoke at the opening of the International Defense Management Course at Defense Resources Management Education Center on 12 January 1977. He also conferred with various DRMEC and Naval Postgraduate School personnel. In addition he met with the International students at the Naval Postgraduate School and met their community hosts.

Captain Robert E. Enright, USN, Navy SATCOMM Program Coordinator, presented the Telecommunications Seminar for CM-0001 on Thursday, 20 January 1977.

Rear Admiral Stanley S. Fine, USN, Director of Fiscal Management Division, OP-92, visited the Naval Postgraduate School on 17 January 1977. He addressed the Practical Comptrollers' Short Course and attended a review of the Financial Management Curriculum.

PRACTICAL COMPTROLLERSHIP SHORT COURSE

A short course entitled "Practical Comptrollership" developed for the Assistant Secretary of the Navy (Financial Management) with the funding support of the Navy Comptroller was offered at the Naval Postgraduate School in the period 17 - 28 January 1977. 23 persons, military and civilian, made up the first class. If successful, it is anticipated that this course would be taught four to six times per year.

The course was developed and presented by Professor James Fremgen and Commanders John Tibbetts and Al Crosby, with assistance from the Comptroller, Naval Postgraduate School, Commander Harry Wareham, USN.

NATIONAL CONTRACT MANAGEMENT ASSOCIATION Monterey Peninsula Chapter

At the monthly luncheon meeting of the Monterey Peninsula Chapter, the NCMA had as its speaker Adjunct Professor Robert R. Judson, Administrative Science Department, NPS. Professor Judson is an eminent authority on the Weapon System Acquisition Process and discussed the Carter Cabinet and changes in the Washington Procurement Arena.

The local chapter of NCMA is a student-run organization which provides students a vehicle whereby they can obtain speakers on topics in the areas of contract management, system acquisition management or procurement. The Chapter operates independently of the School and membership is open to all interested students.

SYMPOSIUM ON AUTOMATED PRODUCTION, STORAGE, RETRIEVAL AND DISPLAY OF DIGITIZED ENGINEERING DATA

On January 13-14, 1977, the Symposium named above convened at the Naval Postgraduate School and was sponsored jointly with Naval Ships Weapon Systems Engineering Station. Professor Peter C. C. Wang and Professor Art Schoenstadt of the Mathematics Department were the Program Coordinators.

Welcomes were extended by RADM Isham Linder, USN, Superintendent at the Naval Postgraduate School; Provost Jack R. Borsting, NPS; and Captain J. D. Elliott, USN, Commanding Officer, NSWSES.

The Invited Address was delivered at the luncheon on 14 January by RADM Roland G. Freeman III, USN, Commander Naval Weapons Center, who spoke on "Problems in Data Management Systems."

FACULTY PROFESSIONAL ACTIVITIES

Assistant Professor James S. Blandin, Defense Resources Management Education Center, attended the 8th Annual National Meeting of the American Institute for Decision Sciences at San Francisco, 10-12 November and presented a paper, "Planning in an Uncertain Environment."

Professor Allen E. Fuhs, Chairman, Department of Mechanical Engineering, has been reappointed for a second three-year term as Editor-in-Chief of the Journal of Aircraft. The Journal is published by American Institute of Aeronautics and Astronautics.

The Fall Meeting of the Acoustical Society of America in San Diego highlighted special sessions on "Seismic Profiling" and "Underwater Impulse Sources," which were arranged by Professor Herman Medwin, Department of Physics and Chemistry. The invited papers represented a cross-section of the research of the geophysical exploitation people of industry and the underwater acousticians of the government laboratories. Professor Medwin also chaired a session on "Scattering and Bottom Interactions" at the San Diego meeting.

Associate Professor F. Russell Richards, Operations Research Department, was selected to the Navy's Inventory Policy Advisory Council, and he attended a two-day meeting of that council in Washington, D.C. on 15-16 December 1976. He presented a paper on "Academic Efforts in Inventory" at the meeting.

Associate Professor Fred Schwarzke, Department of Physics and Chemistry, presented a paper entitled, "Spontaneous Magnetic Fields in Laser-Impact Craters" at the 18th Annual Meeting of the Division of Plasma Physics of the American Physical Society in San Francisco, CA, 15-19 November 1976. The paper was co-authored by Professor A.W.M. Cooper and LCDR F. T. Williamson, Jr.

FACULTY PUBLICATIONS

Davidson, K.L. and Houlihan, T.M.

Turbulence Effects upon Laser Propagation in the Marine Boundary Layer. Proceedings of the Society of Photo-Optical Instrumentation Engineers, Vol. 75, Conference on Imaging through the Atmosphere. Reston, VA, 22-23 Mar 1976.

Abstract: Shipboard measurements of small-scale temperature and velocity fluctuations have been accomplished to determine optical wave propagation properties of the marine boundary layer. Measurements were recorded for ocean conditions in Monterey Bay and in the confines of the Pacific Missile Range. Turbulence parameters measured were the temperature structure function parameter, C_T^2 , and rate of dissipation of turbulent kinetic energy, ϵ . There is satisfactory agreement with overland predictions for the variation of these parameters with height.

NOTICE

Material for the Faculty Bulletin may be submitted to the Editor, Faculty Bulletin, Code 0304. It is requested that the abstracts connected with Faculty Publications be limited to 50 words. Faculty professional activities should be those which have been accomplished not planned for a future date.

FACULTY TRAVEL ORDERS TO 31 JANUARY 1977

Supported by Reimbursable and Other Funds

aniel, D.C.	2-9Jan77	Dahlgren VA	To teach short course at Naval Surface Weapons Ctr
uhs, A.E.	2-8Jan77	Wash DC;Indian Head MD;Charleston SC;Panama City FL	Discuss mine clearing research a NAVSEA, OPNAV, ORDT&E
err, C.B.	3-7Jan77	Wash DC	Visit Ofc of Naval Research & to examine in-house studies on career retention
hlson, J.E.	3-5Jan77	San Diego CA	Visit w/NAVELEX Reps
eipper, D.F.	3-8Jan77	Wash DC	Participate in Navy Strategy Team Mtg for 6.2 funding
arrison, C.J.	3-16Jan77	London UK; Swansea Wales	Visit Natl Physical Lab and Wallingford Hydraulics Lab in London and present paper at the International Symposium on Numerical Methods for Offshore Engineers in Swansea, Wales
auregui, S.	4-9Jan77	San Diego CA	Research Discussions, program reviews at NELC, NUC, Teledyne Micronetics
rima, J.K.	6-17Jan77	Tokyo, Japan Yokosuka Japan	Conduct research on civilian personnel mgmt at Public Works Ctr
ao, T.F.	6-8Jan77	LA	Visit electronic industries in LA area to discuss their LSI projects
hang, C.P.	7-13Jan77	Honolulu, HI Hilo, HI	Attend MONEX mtg and Winter Monsoon Planning Mtg
udson, R.R.	7-14Jan77	Wash DC	Federal Procurement Inst follow-session;GAO presentation; Navy Proc Res Ctr mtg; Proc Res Coord Committee Mtg
hipple, D.R.	7-10Jan77	Chicago IL	Discuss research & interview prospective colleagues at Chicag AEA mtgs.
ucci, P.F.	8-11Jan77	Wash DC	To report and discuss research results with sponsor at NAVSEC Hyattsville MD
etzer, D.E.	9-11Jan77	Las Vegas NV	Attend mtg w/Environmental Protection Agency; Validation of Air Quality Assessment Model.
oisington, D.B.	9-22Jan77	Warminster PA Dahlgren, VA	Present a course in electronic warfare.
ell, R.W.	9-16Jan77	Wash DC	Attend sessions of AIAA 13th Anni Mtg; mtg of AIAA Missile Systems Technical Committee; program planning, NAVAIR
ilch, P.R.	9-12Jan77	Wash DC	Visit Bureau of Naval Personnel & Present Research Results

terworth, R.W.	9-15Jan77	Wash DC	Visit Bureau of Naval Personnel and Present Research Results
rto, P.J.	10-13Jan77	Oakland CA	Serve as technical consultant on IMWe OTEC Heat Exchanger
ine, M.B.	10-11Jan77	Sunnyvale CA	Present talk to Santa Clara Section of Society of Logistics Engineers
ckman, G.L.	11-25Jan77	San Diego CA	Naval Underwater Ctr to teach continuing education course.
ler, R.W.	11-14Jan77	San Diego CA	Attend TESSAC Format Study at NELC
derlie, E.C.	12-15Jan77	Port Hueneme CA	Serve on Review Board, OTEC; discuss cooperative research program, Civil Engineering Lab
ittenden, E.C.	12-15Jan77	Wash DC	Attend EOTAG Mtg
ine, M.B.	15-16Jan77	Palo Alto CA	Present talk to seminar of IEEE Reliability Gp
ullivan, T.M.	16-21Jan77	Philadelphia PA Dayton Ohio; Wash DC	Participate in research test at NAVSEC; attend Wright-Patterson AFB Control Symposium and to discuss research at NAVSEC
ine, M.B.	17-27Jan77	Philadelphia PA Wash DC; Dahlgren VA	Attend annual reliability and maintainability symposium; consultation with research sponsor
ler, R.W.	18-20Jan77	Livermore CA	Discuss EM Systems design and discuss a short course at the Lawrence Livermore Lab
ffin, J.H.	19-23Jan77	San Diego	Visit AESO-NARF-NORIS to complete work started during inter sessional quarter and finish report on this work
), T.F.	19Jan-one trip every two wks	China Lake CA	Give 40 hours of short course "Charge Transfer Device & Applications" at Naval Weapons Ctr
idley, G.H.	19-20Jan77	Palo Alto CA	Give seminar at Stanford Univ & consult w/faculty
wn, G.G.	19-20Jan77	Palo Alto CA	Give seminar at Stanford & consult w/faculty
derplaats, G.	21-28Jan77	LA	Attend short course on Wind Engineering; Application to Energy Conversion, followed by AIAA 15th Aerospace Sciences Mtg
hards, F.R.	21-22Jan77	San Diego CA	Visit ACCAT Lab at NELC; San Diego to talk w/research sponsors
r, D.R.	21-22Jan77	San Diego CA	Visit ACCAT Lab at NELC; San Diego to talk w/research sponsors
s, A.E.	21-28Jan77	LA	Attend short course on Wind Engineering; application to Energy Conversion, followed by AIAA 15th Aerospace Sciences Mtg
mons, J.M.	21-23Jan77	LA	Attend AIAA Short Course on Wind Engineering
g, P.C.	21-22Jan77	Seattle WA	Consult w/research sponsor
pper, D.F.	23-27Jan77	Bay St Louis Mississippi	Participate in Navy Strategy Team I for 6.2 funding.

enner, W.W.	23-27Jan77	Wash DC Silver Spring MD	Participate in conferences in DC area on 24 Jan & to attend the Mine Development Conf at Naval Surface Weapons Ctr, White Oak Silver Spring MD
etzer, D.W.	25-26Jan77	LA	Attend AIAA Propellant & Combustion Technical Committee Mtg
ell, R.W.	23-29Jan77	LA; San Diego	Attend sessions of AIAA 15th Aerospace Mtg; program planning for NAEI-NAVAIR
raganza, E.D.	23-30Jan77	Santa Barbara CA	Attend Gordon Research Conf on Chemical Oceanography
ilson, O.B.	23-30Jan77	Keyport WA Seattle WA to Bremerton WA	Participate in Acoustics Research and discuss Range Studies Activities w/sponsor
all, R.E.	23-29Jan77	Palm Beach FL	Attend JTCG/AS Tech R&D Subgroup Mtg at Pratt & Whitney Aircraft Gp
idler, R.W.	23-29Jan77	Wash DC	Attend TESSAC Coordination Mtgs
ossum, R.R.	23-29Jan77	Denver Colo Wash DC	Conduct DOD business & coordinate research matters
arr, D.R.	24-29Jan77	St Louis MO Pensacola FL	Attend annual mathematics mtgs and to attend the AMS series on new directions in statistics in St Louis; to confer w/the joint triservice oil analysis gp
arker, S.R.	24-29Jan77	San Francisco; Newark NJ; Toms River NJ	Attend Analog Test Program Generation Workshop as Workshop Director
lead, R.R.	25-27Jan77	Sunnyvale CA	Discuss project work w/Lockheed Personnel
ilson, O.B.	26-29Jan77	San Diego CA	Attend mtg to discuss specifications of Underwater Weapons Test Range
rown, G.G.	27-31Jan77	LA; Fullerton CA	Discuss Research at UCLA and CAL State

Supported by O&MN Funds:

Reinhardt, R.A.	2-9Jan77	San Francisco CA	Attend PSI Workshop in preparation for design of PSI material
Howard, G.T.	3-8Jan77	San Francisco CA	Attend PSI Workshop
Jones, C.R.	6-11Jan77	Chicago IL Wash DC	Attend the American Economics mtg in Chicago and discuss curricula w/sponsors in Wash
Spinks, P.	14-15Jan77	Palo Alto CA	Attend an in-depth orientation related to the DIALOG Info Retrieval Sys (Lockheed Info. Sciences). The Library will initiate a DIALOG on line service upon completion of subject orientation

ers, G.A.	16-22Jan77	Dahlgren VA	Teach a short course at the Naval Surface Weapons Ctr
orr, J.B.	17-22Jan77	Santa Clara CA	Attend Microprocessor Short Course
ming, R.W.	18-19Jan77	China Lake CA	Confer w/research sponsors on the VSTOL Avionics Alternatives, at China Lake CA 18 Jan 77
ires, U.R.	18-19Jan77	China Lake CA	Confer w/research sponsors on the VSTOL Avionics Alternatives.
ner, W.W.	19-20Jan77	Moffett Field	Conduct a CE short course in environmental acoustics at NAS
irke, R.H.	19-20Jan77	Moffett Field	Conduct a CE short course in environmental acoustics at NAS
us, H.A.	20-23Jan77	SanDiego CA	Discuss Electronic Warfare at NELC & Undersea Surveillance at NUC
ner, W.W.	21-22Jan77	SanDiego;SanJose	Attend Plessey STD Conf on 21 Jan 77 as Chairman of the Panel on "Outlook in Oceanography"
ina, P.W.	24-30Jan77	St Louis MO	Attend the 60th Annual AMS-MAA MTG and in particular participate in the Short Course on Statistics being given at the mtg
son, H.J.	24-29Jan77	Wash DC Pensacola FL	Discuss OT&E thesis & research with OTEA. Discuss research possibilities w/Triservices Oil Analysis Gp
lins, D.J.	26-29Jan77	LA	Attend Aircraft Design Short Course

Cost to the Government

tzman, R.A.	12-16Jan77	Wash DC	To serve as member of the Doctoral Fellowship Evaluation Panel for the National Research Council
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